| Index | Ωf | Cla | ims |
|-------|----|-----|-----|



Application/Control No.

Yelena G. Gakh, Ph.D.

10/751,368 Examiner

.

Applicant(s)/Patent under Reexamination

STOCKMAN ET AL.

Art Unit

1797

✓ Rejected= Allowed

(Through numeral) Cancelled

Restricted

Non-Elected

Interference

A Appeal
O Objected

| | | | | | | | _ | | | |
|----------------|-----------------------|----------|----------|----------|----------|--------------------|--------------|--------------|-----------------|--------------|
| Cla | aim | | | | | Da | te | | | |
| Final | Original | 12/21/07 | | | | | | | | |
| | 1 | 1 | \vdash | | ╁ | ╁ | + | \dagger | - | \vdash |
| | 1 2 3 4 5 | 1 | - | t | ✝ | T | ╈ | † | + | - |
| | 3 | N | | t | T | † | † | T | \dagger | \dagger |
| | 4 | 1 | | T | \top | \top | \top | \top | \dagger | T |
| | | N | | Т | T | T | 丅 | T | \top | |
| | 6 | N | | | | Τ | | | | |
| | 7 | N | | | | L | | | | |
| | 8 | N | | | L | | | | | |
| | 9 | 1 | | | ↓_ | $oldsymbol{\perp}$ | ╙ | ـــــ | | |
| | 10 11 12 | N | ļ | <u> </u> | ╄ | ╄- | ╄ | _ | 1 | <u> </u> |
| | 11 | N | <u> </u> | <u> </u> | ↓_ | - | \perp | 1 | - | - |
| | 12 | 1 | \vdash | \vdash | \vdash | +- | \perp | + | ┼- | |
| | 13 14 15 | N | \vdash | - | ╀ | ╀ | + | +- | \vdash | \vdash |
| | 15 | N | - | ├ | ⊢ | + | ╁ | ╁ | - | H |
| | 16 | 1 | _ | ┢ | 1 | ╁ | ╁ | + | - | ╁ |
| | 16 17 | N | - | \vdash | ╁ | ╁ | | ╁ | ╁ | H |
| | 18 | 7 | _ | H | \vdash | ╁ | H | \vdash | ┼─ | H |
| | 19 | 1 | | I | ┢ | | \vdash | + | ╁ | Н |
| | 19 20 | N | _ | | | + | \top | 1 | т | \vdash |
| | 21 | N | _ | \vdash | T | T | 1 | T | | П |
| | 21 22 | 1 | | | | | | 1 | | П |
| | 23 | N | | | | - | | | | |
| | 24 25 | N | | | | | | | | |
| | 25 | N | | _ | | | <u> </u> | _ | | Ц |
| | 26 | Ν | | | L_ | <u> </u> | _ | _ | _ | Ш |
| | 27 28 29 | N | | | _ | <u> </u> | <u> </u> | _ | _ | Щ |
| \rightarrow | 28 | N | | | ├- | ┈ | _ | \vdash | <u> </u> | Ш |
| | 30 | \dashv | | <u> </u> | - | \vdash | - | ⊢ | ⊢ | Н |
| | 31 | \dashv | _ | | \vdash | ├ | - | ├— | ļ. — | \vdash |
| - t | 32 | \dashv | | | - | \vdash | ┢ | ┢╌ | | Н |
| | 33 | | | - | _ | \vdash | H | ┢ | | \dashv |
| | 34 | | | | \vdash | <u> </u> | 1 | | _ | |
| | 35 | ヿ | _ | | Г | | ! | ı | | |
| | 36 | | | | | | | | | |
| | 37 | | | | | | | | | |
| [| 38 | _ | | | | | | | | |
| | 39 | 4 | _ | | | <u> </u> | ļ | _ | | |
| | 40 | | _ | | _ | _ | | <u> </u> | Ш | Ш |
| _ | 41 | - | | | | ┡ | _ | <u> </u> | | |
| \dashv | 42 | | _ | _ | | \vdash | | <u></u> | Н | _ |
| | 43 44 | \dashv | \dashv | _ | | - | \vdash | | \vdash | \dashv |
| | 45 | - | \dashv | - | - | | | | $\vdash \vdash$ | |
| - | 46 | \dashv | \dashv | \dashv | _ | - | \vdash | - | \vdash | \dashv |
| | 47 | \dashv | \dashv | - | | ┝ | | - | \vdash | \dashv |
| | 48 | \dashv | \dashv | \dashv | _ | - | - | | Н | \dashv |
| \dashv | 49 | \dashv | \dashv | | _ | \vdash | | - | \vdash | \dashv |
| -† | 50 | 7 | ᅦ | | | _ | Н | | \Box | \dashv |
| | 1 | _ | _ | _ | _ | Ь | | | | |

| | | $\overline{}$ | _ | | | _ | | | | |
|--------------|----------------|--------------------|----------|--|--|--------------|----------------|--------------|--------------|----------|
| | lạim | 1_ | | | | Da | te | | | |
| Final | Original | | | | | | | | Petron | |
| | 51 | 1 | T | †- | | +- | + | T | T | T |
| - | 52 | ╁ | ╁ | + | +- | + | + | + | ┿ | ╁ |
| - | 52 53 | +- | ╁ | + | + | ┿ | +- | + | + | + |
| | 53 | +- | + | +- | + | ┼ | + | ╀ | + | +- |
| - | 54 | + | ┼ | + | + | _ | + | ╄ | + | + |
| <u> </u> | 55 | _ | - | ┸ | 4_ | ┸ | ╄ | ╄ | ┸ | ╄ |
| <u> </u> | 56 | ┸ | ┸ | \perp | ╀ | Ц_ | ┸ | ╙ | 1 | 1 |
| | 57 | $oldsymbol{\perp}$ | 1 | | ┸ | <u> </u> | 丄 | ↓_ | 1 | 1 |
| | 58 59 | 丰 | ┸ | ┸ | _ | _ | | | | ┸ |
| | 59 | | | ┸ | | \perp | | 丄 | | |
| | 60 | | \perp | \perp | ┸ | | | 丄 | | |
| L. | 61 62 63 | | | | | | _ | | | |
| <u></u> | 62 | | | | | | L | | | |
| | 63 | | | | | 1. | | Г | | |
| | 64 65 | | | | | Τ | Т | П | Г | Г |
| | 65 | П | П | | T | | П | | Т | Т |
| | 66 | T | | | T | T | Γ | Т | 1 | |
| \Box | 67 | Т | | Т | T | T | T | | 1 | 1 |
| | 68 | | Τ | | | T | | | | \top |
| | 69 | | T | 1 | 1 | | | \top | | |
| | 70 | | | | | Т | | Т | 1 | |
| | 70 71 | | | | | | | \Box | Π | |
| | 72 | | | | | | | | | |
| | 72 73 74 | | L | | | | | L | | |
| | 74 | | | | | | | | | |
| | 75 76 | | <u> </u> | | <u> </u> | | ┖ | <u> </u> | | |
| | 76 | ↓_ | | _ | | <u> </u> | <u> </u> | <u> </u> | | |
| | 77 | _ | <u> </u> | L | $oxed{igspace}$ | | _ | | | _ |
| <u></u> | 78 79 | ↓_ | L | L | ┖ | _ | | _ | | 上 |
| | 79 | <u> </u> | ļ | _ | <u> </u> | <u> </u> | | <u> </u> | <u> </u> | _ |
| | 80 | | _ | ╄ | <u> </u> | \perp | | $oxed{oxed}$ | _ | <u> </u> |
| <u> </u> | 81 82 | Ļ_ | <u> </u> | ــــــــــــــــــــــــــــــــــــــ | _ | <u> </u> | _ | L | _ | |
| | 82 | L. | L | <u> </u> | _ | | | <u> </u> | _ | <u> </u> |
| | 83 | $oxed{oxed}$ | ┖ | _ | _ | _ | _ | <u> </u> | <u> </u> | _ |
| <u> </u> | 84 | | \vdash | $oxed{\bot}$ | ļ_ | <u> </u> | <u> </u> | <u> </u> | <u> </u> | _ |
| | 85 | ┡- | ┡ | | _ | _ | _ | | _ | <u> </u> |
| | 86 87 | L | <u> </u> | <u> </u> | <u> </u> | ⊢ | <u> </u> | | _ | ┞ |
| | 87 | ├ | ⊢ | ⊢ | ┡ | - | <u> </u> | | - | ⊢ |
| <u> </u> | 88 | ├ | <u> </u> | ╀ | ┡ | - | <u> </u> | <u> </u> | <u> </u> | _ |
| <u> </u> | 89 | | <u> </u> | - | <u> </u> | _ | <u> </u> | | | ┡ |
| | 90 | | - | \vdash | _ | ⊢ | _ | ┝ | | |
| <u> </u> | 91 | | <u> </u> | - | _ | | - | - | <u> </u> | _ |
| <u> </u> | 92 93 | | - | | \vdash | \vdash | | \vdash | \vdash | ├ |
| | 93 | \vdash | \vdash | ├ | \vdash | - | - | | \vdash | - |
| <u> </u> | 95 | ⊢ | ├- | - | \vdash | ├ | | <u> </u> | | - |
| <u> </u> | 96 | | - | \vdash | \vdash | | | | | |
| <u> </u> | 96 | - | | \vdash | | \vdash | \vdash | \vdash | \vdash | |
| | 98 | \vdash | ├- | | ├ | \vdash | \vdash | | \vdash | _ |
| \vdash | 99 | \vdash | \vdash | \vdash | - | | | \vdash | \vdash | |
| \vdash | 100 | | \vdash | | | \vdash | | | - | - |

| Te Fig. Fi | Cla | aim | Γ | | - | | Da | te | | | | 1 |
|--|----------|-----|--|----------|----------|--|----------|-----------|--------------|--|-----------|--------------|
| 101 | Ť | | \top | Т | Т | Т | Ť | Ť | T | Т | T- | 1 |
| 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 131 131 132 133 134 135 136 137 | 8 | | į | | | | i | | | | | |
| 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 131 131 132 133 134 135 136 137 | | 101 | | | | <u> </u> | | | | | | |
| 104 | 1 | 102 | _ | L | | 1_ | ┸ | 1_ | <u> </u> | ↓_ | L | |
| 105 | 4 | 103 | <u>Ļ</u> . | ┡ | \perp | ╀ | 1 | ↓- | | \perp | ╀ | 4 |
| 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 | - | 104 | ļ | ╀- | ╀ | 4- | 4 | + | ╀ | ╄ | | 4 |
| 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 | - | 105 | \vdash | ⊢ | ╁ | + | +- | + | ╀ | +- | ├- | ┦ |
| 108 | + | 107 | 1- | ╁ | ╁ | ╁ | + | + | + | + | ╁ | ┨ |
| 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 | + | 108 | ╁ | ╁╌ | ╁ | - | ╁ | +- | ╁ | ╁ | H | \forall |
| 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 | \dashv | 109 | \vdash | 1 | T | ╁ | ╁ | \dagger | + | +- | \dagger | 1 |
| 111 | \dashv | 110 | ┢ | t | T | T | T | T | t | İ | Ħ | 1 |
| 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 131 132 133 134 135 136 137 | 7 | 111 | | | | | \top | 1 | | | T | ٦ |
| 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 131 132 133 134 135 136 137 | | 112 | | | | I | | | | | |] |
| 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 131 132 133 134 135 136 137 | \perp | 113 | | | | | | \Box | | | |] |
| 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 131 132 133 134 135 136 137 | 4 | 114 | L. | L | | | L | | \perp | | |] |
| 118 119 120 121 122 123 124 125 126 127 128 129 130 131 131 132 133 134 135 136 137 | \bot | 115 | <u> </u> | | \perp | _ | ┺ | _ | _ | _ | <u> </u> | 4 |
| 118 119 120 121 122 123 124 125 126 127 128 129 130 131 131 132 133 134 135 136 137 | \dashv | 116 | <u> </u> | <u> </u> | \vdash | ╄ | ╀ | \vdash | <u> </u> | | \vdash | \downarrow |
| 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 | + | 11/ | _ | \vdash | 1 | <u> </u> | 1 | \vdash | 1 | \vdash | | 4 |
| 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 | + | 118 | - | \vdash | ╀ | \vdash | \vdash | + | \vdash | ├ | }_ | 4 |
| 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 | + | 120 | | ⊢ | ╁ | ╁ | + | ╁ | ┢ | H | ┢ | ┨ |
| 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 | + | 121 | | - | ╁╌ | ╁ | ╁ | + | ┢ | ┢ | ┢ | 1 |
| 125 126 127 128 129 130 131 132 133 134 135 136 | + | 122 | | ┢ | + | +- | ╁ | +- | ┝ | ╁╴ | Н | 1 |
| 125 126 127 128 129 130 131 132 133 134 135 136 | 十 | 123 | | <u> </u> | T | ╁╌ | 十 | ╁┈ | | | | 1 |
| 125 126 127 128 129 130 131 132 133 134 135 136 | 7 | 124 | | Г | T | Т | \vdash | \top | \vdash | | Т | 1 |
| 128 129 130 131 132 133 134 135 136 137 | | 125 | | | | | | | | | |] |
| 128 129 130 131 132 133 134 135 136 137 | | 126 | | | | | | | | | |] |
| 132 133 134 135 136 137 | | 127 | <u></u> | | <u> </u> | | | | | <u> </u> | _ | 1 |
| 132 133 134 135 136 137 | | 128 | | | ļ | <u> </u> | _ | ļ | <u> </u> | | <u> </u> | 4 |
| 132 133 134 135 136 137 | - | 129 | | L | ┞ | <u> </u> | <u> </u> | ⊢ | <u> </u> | | _ | ł |
| 132 133 134 135 136 137 | + | 130 | | \vdash | \vdash | - | \vdash | \vdash | \vdash | - | \vdash | \mathbf{I} |
| 133 134 135 136 137 | + | 132 | | \vdash | \vdash | \vdash | \vdash | \vdash | \vdash | \vdash | - | 1 |
| 134 135 136 137 | +. | 133 | H | - | \vdash | \vdash | \vdash | + | \vdash | \vdash | \vdash | 1 |
| 135 136 137 | + | 134 | - | _ | - | 1 | \vdash | H | \vdash | \vdash | | 1 |
| 136 | ١. | 135 | | - | | 1 | \vdash | 1 | | \vdash | \vdash | 1 |
| 137 | <u> </u> | 136 | | | | | | | | | | |
| 1420 | | 137 | | | | \Box | | | | | |] |
| | 1. | 138 | | | | \Box | | | | | Ĺ | 1 |
| 139 | 1 | 139 | | | | <u> </u> | | <u> </u> | | L | | 1 |
| 140 | + | 140 | | | ļ | _ | <u> </u> | \vdash | ļ | \vdash | | ۱ |
| 141 | | | \dashv | | - | ⊢ | _ | | | \vdash | _ | 1 |
| 142 | | | - | | \vdash | \vdash | \vdash | \vdash | \vdash | | _ | \mathbf{I} |
| 143 | | | - | _ | \vdash | \vdash | \vdash | | \vdash | H | _ | |
| 145 | | | \dashv | | | \vdash | - | - | - | \vdash | | l |
| 146 | | | 一 | | _ | | - | _ | \vdash | | | l |
| 147 | | | 一 | | | | | | | | | |
| 148 | | | 一 | | | | | | | | | 1 |
| | 1 | 149 | | | | | | | | | | 1 |
| | | 150 | | | | | | | | | | 1 |